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CENTRAL FAX CENTER**

PATENT
Atty. Dkt. No. ATT/2002-0457

IN THE CLAIMS:

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1. – 5. (Canceled).

6. (Currently Amended) A method to provide a data management system, comprising:

preprocessing a database having a relation to produce an index, wherein said preprocessing step comprises:

identifying a dominating vector of constants, \bar{c} , for a given n-dimensional vector of constants \bar{c} ;

receiving a query having aggregation constraints, wherein said aggregation constraints are Optimization under Parametric Aggregation Constraints (OPACs);

applying said index to look up a result in response to said query having aggregation constraints; and

providing said result, wherein said result is an approximation.

7. (Original) The method of claim 6, wherein said preprocessing step further comprises:

obtaining a partition defined by said vector \bar{c} and said vector \bar{c}' .

8. (Original) The method of claim 7, wherein said partition is expressed as a hyper rectangle.

9. (Original) The method of claim 7, wherein said preprocessing step further comprises:

inserting said partition into a multidimensional data structure.

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10. (Original) The method of claim 9, wherein said multidimensional data structure is an R-Tree.

Claims 11. – 24. (Canceled).